

CLAIMS

1. An aqueous resin composition having gas barrier properties, which comprises
 - 5 (i) a polyurethane resin having a urethane group and a urea group in a total concentration of 25 to 60% by weight and having an acid group,
 - (ii) a swelling inorganic layered compound, and
 - (iii) a polyamine compound.
- 10 2. A resin composition according to claim 1, wherein the polyurethane resin (i) is a resin obtained by at least a reaction of (A) a polyisocyanate compound and (B) a polyhydroxyalkanoic acid, and neutralized with a neutralizing agent, and wherein the polyisocyanate compound
- 15 (A) contains at least one member selected from the group consisting of an aromatic polyisocyanate, an araliphatic polyisocyanate and an alicyclic polyisocyanate.
3. A resin composition according to claim 1, wherein the polyurethane resin (i) is a resin obtained by
- 20 a reaction of the following component (A), the following component (B), and at least one component selected from the group consisting of the following components (C) and (D), and neutralized with a neutralizing agent;
- (A) a polyisocyanate compound which contains at least one
- 25 member selected from the group consisting of an aromatic polyisocyanate, an araliphatic polyisocyanate and an alicyclic polyisocyanate in a proportion of not less than

30% by weight in the polyisocyanate compound,

(B) a polyhydroxyalkanecarboxylic acid,

(C) a polyol compound which contains a polyol component having 2 to 8 carbon atoms in a proportion of not less than

5 90% by weight in the polyol compound, and

(D) at least one chain-extension agent selected from the group consisting of a diamine, hydrazine and a hydrazine derivative.

4. A resin composition according to claim 2,

10 wherein the component (A) in the polyurethane resin (i) contains at least one member selected from the group consisting of a xylylene diisocyanate and a hydrogenated xylylene diisocyanate.

5. A resin composition according to claim 1,

15 wherein the swelling inorganic layered compound (ii) comprises at least one member selected from the group consisting of a water-swelling mica and a montmorillonite.

6. A resin composition according to claim 1,

wherein the acid value of the polyurethane resin (i) is
20 5 to 100 mgKOH/g, the amine value of the polyamine compound (iii) is 100 to 1900 mgKOH/g, and the proportion of the acid group of the polyurethane resin (i) relative to the basic nitrogen atom of the polyamine compound (iii) is 10/1 to 1/5 as the equivalent ratio.

25 7. A resin composition according to claim 1,

wherein the ratio of the swelling inorganic compound (ii) relative to the polyurethane resin (i) is 1/100 to 200/100

in terms of solid content.

8. A gas barrier laminated film comprising a base film, and a layer formed on at least one surface of the base film, wherein the layer comprises an aqueous resin
5 composition recited in any one of claims 1 to 7.